

System suitable as a catalyst for the hydrocyanation of olefinically unsaturated compounds

Abstract

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A system which is suitable as a catalyst for the hydrocyanation of olefinically unsaturated compounds and comprises

- 10 a) Ni(0)
- b) a compound which complexes Ni(0) as a ligand and contains trivalent phosphorus,
- 15 c) a Lewis acid
- and
- d) a compound of the formula $M R_n$
- 20 where
- M: Al or Ti
- 25 R: identical or different monovalent alkoxy radicals, in which case a plurality of alkoxy radicals may be bonded together, and additionally, in the case that $M = Al$, R may be identical or different monovalent alkyl radicals, in which case a plurality of alkyl radicals may be bonded together or one or more alkyl radicals may be bonded to one or more of the abovementioned alkoxy radicals;
- 30 n: valency of M,

and processes for hydrocyanating an olefinically unsaturated compound in the presence of such a system.